



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John Patrick Lemmon et al)

Serial No.: 10/747,838)

Filing Date: 12/29/2003)

For: Compositions and Methods For Hydrogen)
Storage and Recovery)

Group Art Unit:

Examiner:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose, submitted herewith is form PTO-A820 (PTO-1449) listing publication(s) of which those designated by 37 CFR § 1.56 are aware. Copies of the non-United States patents or published applications are enclosed.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or an admission that the information cited is, or is considered to be, material to patentability.

Respectfully submitted,

CANTOR COLBURN LLP

By: _____


David E. Rodrigues
Registration No. 50,604

Date: April 16, 2004
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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
133456-1

In Re Application Of: **John Patrick Lemmon et al**

Serial No.

10/2003,838

Filing Date

12/29/2003

Examiner

Group Art Unit

Title:

Compositions and Methods For Hydrogen Storage and Recovery

Address to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
133456-1

In Re Application: John Patrick Lemmon et al

APR 19 2004

Serial No.

Filing Date

Examiner

Group Art Unit

107747-838

12/29/2003

Compositions and Methods For Hydrogen Storage and Recovery

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
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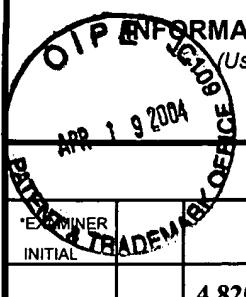
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Signature

Dated: April 16, 2004

David E. Rodrigues
Registration No. 50,604
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Tel: (860) 286-2929

CC:

<div style="text-align: center;">  <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> </div>	ATTY DOCKET NO. 133456-1	SERIAL NO. 10/747,838
	Applicant(s): John Patrick Lemmon et al	
	FILING 12/29/2003	GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,820,226	04/11/1989	Hsu			
	5,389,333	02/14/1995	Li et al			
	5,882,623	03/16/1999	Zaluska et al			
	6,024,935	02/15/2000	Mills et al			
	6,080,381	06/27/2000	Zaluska et al			
	6,137,550	10/24/2000	Hinchliffe et al			
	6,329,076	12/11/2001	Kawabe et al			
	6,447,942	09/10/2002	Ovshinsky et al			
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	6,602,485	08/05/2003	Tsuboi			
	US20020100725	08/01/2002	Lee et al			

FOREIGN PATENT DOCUMENTS

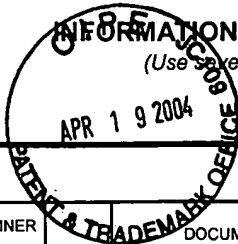
*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
/	EP 1 116 797 A1	07/18/2001	European Patent Office				
.	WO 95/25355	09/21/1995	WIPO				
\	WO 97/43206	11/20/1997	WIPO				
^	WO 98/10329	03/12/1998	WIPO				
^	WO 98/15986	04/16/1998	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Ji-Cheng Zhao, "A Combinatorial Approach for Structural Materials", <i>Advanced Engineering Materials</i> 2001, 3, No. 3, pp. 143-147
			Ji-Cheng Zhao, "A combinatorial approach for efficient mapping of phase diagrams and properties", <i>J. Mater. Res.</i> , Vol 16, No. 6, June 2001, pp. 1565-1578

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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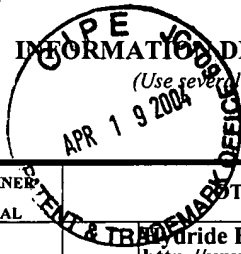
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		WO 01/30520 A1	05/03/2001	WIPO				
		WO 01/51410 A1	07/19/2001	WIPO				
		WO 02/087291 A2	10/31/2002	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Kentaro Ito and Tetsuya Kubo, "Gas Detection by Hydrochromism", Proceedings of the 4th Sensor Symposium, 1984, pp. 153-156.
			K. Ito and T. Ohgami, "Hydrogen detection based on coloration of anodic tungsten oxide film", <i>Appl. Phys. Lett.</i> 60 (8), 24 February 1992, pp. 938-940.

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		Filing Date 12/29/2003		Group Art Unit	
<div style="display: flex;"> <div style="width: 10%; text-align: center;"> <p>*EXAMINER INITIAL</p> </div> <div style="width: 90%;"> <p>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Hydride Basics, "Solid-H(TM) Metal Hydrides", U.S. Patent No. 4,600,525, http://www.hydrogencomponents.com/hydride.html, 9/6/2003, pp. 1-3.</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>K. Christmann, "Interaction of Hydrogen With Solid Surfaces", <i>Surface Science Reports</i> 9 (1988) 1-163, North-Holland, Amsterdam, Manuscript received in final form 13 April 1988, pp. 1-163</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>D. J. Taylor et al, "Microstructure of Laser-Fired, Sol-Gel-Derived Tungsten Oxide Films", <i>Chem. Mater.</i> 1996, 8, pp. 1396-1401.</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Sung Hyeon Baek et al, "Photoelectrochemical Hydrogen Production Using New Combinatorial Chemistry Derived Materials", Proceedings of the 2002 DOE Hydrogen Program Review, NREL/CP-610-32405, DOE Project # DE-FC36-01GO11092, PI: Eric W. McFarland, pp. 1-10</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Jussi Eloranta et al, "Photogeneration of atomic hydrogen in rare gas matrices", accepted 25 January 1999, <i>Journal of Chemical Physics</i>, Volume 110, Number 16, pp. 7917-7925.</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Darlene K. Slattery and Michael D. Hampton, "Complex Hydrides for Hydrogen Storage", Proceedings of the 2002 DOE Hydrogen Program Review, NREL/CP-610-32405, pp. 1-9</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Thomas F. Jaramillo et al, "Articles, High-Throughput Screening System for Catalytic Hydrogen-Producing Materials", <i>J. Comb. Chem.</i> 2002, 4, 17-22.</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>John J. Petrovic, Advanced Concepts for Hydrogen Storage, DOE Hydrogen Storage Workshop, Argonne National Laboratory, 14-15 August 2002</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Wim Soppe et al, Institute of Microtechnology (IMT), Microwave Plasma Assisted VHF-PECVD of Micro-Crystalline Silicon</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>A.F. Djakov, V.D. Rusanov, RAO "EES Russia", Russia, Hydrogen In Energy In Long-Term Prospect, World Energy Council, http://www.worldenergy.org/wec-geis/publications/default/tech_papers/17th_congress/3_3_09.asp, 9/12/2003, pp. 1-6.</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Hydrogen Review Article, Hydrogen Review, http://naftp.nrcce.wvu.edu/techinfo/altfuels/H2/Hydrogen.html, 9/11/2003, pp. 1-10.</p> </div> </div>					
<div style="display: flex;"> <div style="width: 10%;"></div> <div style="width: 90%;"> <p>Thomas Klassen et al, Nanocrystalline Mg-based Hydrides: Hydrogen Storage for the Zero-Emission Vehicle</p> </div> </div>					
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<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>					

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*EXAMINER INITIALS	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	Hamamura et al, Thickness Dependence of Coloration of Anodic Tungsten Oxide Films for Hydrogen Detection, Solid State Phenomena, Vols. 51-52 (1996), pp. 429-434		
	http://www.ndt.net/article/v07n07/smith/smith.htm, September 14, 2003, Diffusible Weld Hydrogen - Measurement by Fiber Optic Sensors, NDT.net - July 2002, Vol. 7, No. 7, R.D. Smith II et al, "Diffusible Web Hydrogen - Measurement by Fiber Optic Sensors", pp. 1-7.		
	http://www.micropat.com/cgi-bin/pslist, 8/18/2003, Japanese Patent Abstract JP2000239768, "Hydrogen Storage Alloy Enabling High Rate Discharge of Battery", Mitsubishi Materials Corp., Kita Koichi et al, published September 5, 2000.		
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	https://www.delphion.com/cgi-bin/viewpat.cmd/JP21015107A2, April 7, 2004, Patent Abstracts of Japan, "Hydrogen Storage Alloy Electrode For Alkaline Storage Battery", Sanyo Electric Co. Ltd., Higashiyama et al, published July 2, 1999.		
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